

Żytnia IPA

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **69**
- SRM **8.6**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **19.5 liter(s)**
- Total mash volume **26 liter(s)**

Steps

- Temp **68 C**, Time **60 min**

Mash step by step

- Heat up **19.5 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Sparge using **18.7 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.5 kg (69.2%)	80 %	5
Grain	Żytni	1.5 kg (23.1%)	85 %	8
Grain	Strzegom Karmel 150	0.5 kg (7.7%)	75 %	150

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	20 g	60 min	15.5 %
Boil	Galaxy	25 g	15 min	15 %
Boil	Galaxy	25 g	10 min	15 %
Boil	Cascade	30 g	5 min	6 %
Boil	Lemon drop	40 g	5 min	4.6 %
Boil	Citra	40 g	5 min	12 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	200 ml	Fermentis